PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's	or agent's file reference	FOR FURTHER ACTIO	N	See Form PCT/IPEA/416		
ADV1.003.WO						
International application No. International filing dat		International filing date (day)	/month/year)	Priority date (day/month/year)		
PCT/US04/25221 04 August 2004 (04.08.2004				04 August 2003 (04.08.2003)		
Internationa	l Patent Classification (IPC)	or national classification and IF	PC .			
IPC(7): G02 Applicant	2B 6/20; B29C 35/06 and US	Cl.: 385/125; 156/244,13				
	D ILLUMINATION TECHN	OLOGIES, LLC				
1	established by this International Preliminary					
	This REPORT consists of a total of \subsets, including this cover sheet.					
3.	This report is also accompanied by ANNEXES, comprising:					
	a. (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
4.	4. This report contains indications relating to the following items:					
	Box No. I Basis of the report					
	Box No. II Priority					
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
İ	Box No. IV Lack of unity of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited				
	Box No. VII Certain defects in the interna		ational application	n		
	Box No. VIII	Certain observations on the				
Date of s	submission of the demand		Date of completi	on of this report		
06 June 2	2005 (06.06.2005)		19 July 2005 (19.0	07.2005)		
Name and mailing address of the IPEA/ US		Authorized officer	a comment			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		John D. Lee	Contain R Mathematic			
	P.O. Box 1450 Alexandria, Virginia 22313-145	o	Telephone No. (5	•		
_ Facsimile	No. (703) 305-3230		L			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

1	International application No.
	PCT/US04/25221

Box No. I Basis of the report
1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4)
international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
the international application as originally filed/furnished
the description:
pages 1-18 as originally filed/furnished
pages* NONE received by this Authority on
the claims:
pages NONE as originally filed/furnished pages* 19-21 as amended (together with any statement) under Article 19
pages* 19:-21 as amended (together with any statement) under Article 19 pages* NONE received by this Authority on
pages* NONE received by this Authority on
the drawings: pages 1-3 as originally filed/furnished
pages* NONE received by this Authority on
pages* NONE received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages NONE
the claims, Nos. NONE
the drawings, sheets/figs NONE
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos.
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
* If item 4 applies, some or all of those sheets may be marked "superseded."
27 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/25221

Box No. V Reasoned statement under Artic applicability; citations and expla	le 35(2) with regard to novelty, inventions supporting such statement	entive step or industrial
1. Statement		
Novelty (N)	Claims 1-42	YES
110,120, (17)	Claims NONE	NO
- · · · · · · · · · · · · · · · · · · ·	Claims 1-42	YES
Inventive Step (IS)	Claims NONE	NO NO
Industrial Applicability (IA)	Claims 1-42	YES
	Claims NONE	NO
type claimed which exhibits an adda, whetein the red cladding containing the core. The prior art document light guide since the core refractive index therein is go Claims 1-42 meet the criteria set out in PCT Article is to made or used in industry. NEW CITATIONS NEW CITATIONS	reater than the cladding retractive index.	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/25221

S	upplemental Box	İ
	In case the space in any of the preceding boxes is not sufficient.	
	Continuation of:	

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CLAIMS

1. A light-emitting form comprising:

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an elongated light guide having a first end and a second end; and

a light source that sheds light into the first end of the light guide;

wherein the light guide further comprises:

a tubular light-transmitting container consisting essentially of a substantially amorphous polymer with a first index of refraction, the container having a first open end, a second open end, an inside surface and an outside surface; and

an elongated light-transmitting core with a second index of refraction lower than said first index of refraction, the core having a first end and a second end, the core being within the container and optically connected to the inside surface thereof;

whereby the light guide exhibits an aura, wherein the outside surface of the container illuminates its surroundings and appears to glow.

- 2. The light-emitting form of claim 1 further comprising means for sealing the first open end of the light guide and means for sealing the second open end of the light guide, whereby the light guide is adapted to contain a core of liquid.
- 3. The light-emitting form of claim 2 wherein the core consists essentially of a liquid comprising a salt solution.
- 4. The light-emitting form of claim 2 wherein the core consists essentially of a liquid comprising an oil.
- 5. The light-emitting form of claim 2 wherein the core consists essentially of a liquid comprising a water-soluble polymer in solution.
- 6. The light-emitting form of claim 2 wherein the core consists essentially of a liquid comprising a polyglycol.
- 7. The light-emitting form of claim 2 wherein the core consists essentially of a liquid comprising a solution of a low molecular weight organic compound in organic solvent.
- 8. The light-emitting form of claim 2 wherein the core consists essentially of a liquid comprising a solution of a low molecular weight inorganic compound in inorganic solvent.

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- 9. The light-emitting form of claim 2 wherein the core consists essentially of a liquid comprising an oligomer in solution.
- 10. The light-emitting form of claim 2 wherein the means for sealing the second end of the light guide comprises a solid wall integral with the container.
- 11. The light-emitting form of claim 9 wherein the means for sealing the first end of the light guide comprises a light source embedded as a plug in the first end of the container.
- 12. The light-emitting form of claim 1 wherein the container consists essentially of a solid comprising a cross-linked polymer.
- 13. The light-emitting form of claim 1 wherein the container consists essentially of a solid comprising a hydrogel.
- 14. The light-emitting form of claim 1 wherein the container consists essentially of a solid comprising a thermoplastic polymer.
- 15. The light-emitting form of claim 1 wherein the container consists essentially of a solid comprising a cross-linked polymer.
- 16. The light-emitting form of claim 1 wherein the container consists essentially of a solid comprising a thermoset polymer.
- 17. The light-emitting form of claim 1 wherein the container consists essentially of a solid comprising a halogenated hydrocarbon.
- 18. The light-emitting form of claim 1 wherein the light guide is substantially cylindrical in shape.
- 19. The light-emitting form of claim 1 wherein the cross section of the inside surface of the container has a shape different from the cross section of the outside surface of the container.
- 20. The light-emitting form of claim 1 wherein the light source comprises a plurality of light-emitting elements at the first end of the light guide that shed light into the first end of the light guide.

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AMENDED SHEET

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- 21. The light-emitting form of claim 1 further comprising a second light source that sheds light into second end of the light guide.
- 22. The light-emitting form of claim 1 wherein the light source comprises a light-emitting diode.
- 23. A light-emitting form comprising:

a container consisting essentially of a solid tubular element comprising a substantially amorphous acrylic polymer having a first index of refraction, having an inside surface of about 14 mm diameter, an outside surface of about 17 mm diameter, a first end, and a second solid end;

a core consisting essentially of a liquid comprising poly glycol having a second index of refraction lower than said first index of refraction, the core being within the container and optically connected to the inside surface thereof; and

a light source consisting essentially of a light-emitting diode, sealingly embedded in the first end of the container and optically connected to the core into which it sheds light,

whereby the light-emitting form exhibits an aura, wherein the outside surface of the container illuminates its surroundings and appears to glow.

24. A light-emitting form comprising:

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a container consisting essentially of a solid comprising a substantially amorphous polyurethane having a first index of refraction, having an inside surface of about 6.5 mm diameter, an outside surface of about 8 mm diameter, a first solid end, and a second solid end;

a core consisting essentially of a liquid comprising purified oil having a second index of refraction that is lower than said first index of refraction, the core being within the container and optically connected to the inside surface thereof; and

a light source comprising a light-emitting diode sealingly embedded in the first end of the container and optically connected to the core into which it sheds light.

- 25. The light-emitting form of claim 23 wherein the inside surface of the container has a diameter of about 3 mm and the outside surface of the container has a diameter of about 4 mm.
- 26. The light-emitting form of claim 1 wherein the inside surface of the container has a diameter of about 3 mm and the outside surface of the container has a diameter of about 4 mm.
- 27. The light-emitting form of claim 1 wherein the inside surface of the container has a diameter of about 6.5 mm and the outside surface of the container has a diameter of about 8 mm.

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